

AMENDMENTS TO THE DRAWINGS

Please substitute the enclosed Fig. 1 for the corresponding Figure filed on August 25, 2003. Fig. 1 has been amended to provide support for the alternative embodiments of the casing member (23) being mounted to a wheel hub and the sensor (25) being mounted to one of a front fork, a back fork or a chainstay of the bicycle. An annotated sheet showing the changes also accompanies the replacement sheet. Both sheets are attached to the end of this paper.

REMARKS

In this paper, claims 1 and 17 are currently amended. After entry of the above amendment, claims 1-22 are pending.

The applicant appreciates the indicated allowability of claims 17-19 if rewritten in independent form. Claim 17 has been rewritten to be in independent form, so it is believed that claims 17-19 are now allowable.

Paragraph [0035] of the specification and Fig. 1 have been amended to provide support for the alternative embodiments of the casing member (23) being mounted to a wheel hub and the magnetic sensor (25) being mounted to one of a front fork, a back fork or a chainstay of the bicycle as recited in claims 21 and 22.

Claims 1-10, 20 and 21 were rejected under 35 U.S.C. §102(b) as being anticipated by Uyeda, et al (US 4,521,731). This basis for rejection is respectfully traversed.

Claim 1 has been amended to clarify that the annular body is structured to be mounted to a mounting boss of the bicycle part other than a wheel spoke. Uyeda, et al discloses a magnet mount that is specifically structured to mount to a spoke, which is opposite the claimed structure. Thus, Uyeda, et al neither discloses nor suggests the subject matter recited in amended claim 1.

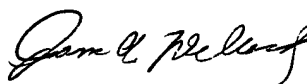
Claims 1 and 11-16 were rejected under 35 U.S.C. §103(a) as being unpatentable over Shikimori, et al (US 5,560,266) in view of Uyeda, et al. This basis for rejection is respectfully traversed.

Claim 1 also has been amended to clarify that the magnet mounting portions are fixed relative to each other during rotation of the casing member. Shikimori, et al discloses a bicycle crank wherein an annular member (8) is connected to a hub (4) of a crank (5), and another annular member (13) is connected to annular member (8) through spokes (11) and (12), wherein a pair of sprocket wheels (17) and (18) are bolted to annular member (13). A plurality of magnets (23) are circumferentially mounted on a disc-shaped member (2) that is formed as one-piece with crank (5).

Another plurality of magnets (24) are circumferentially mounted on annular member (13). As the sprockets (17) and (18) are rotated, the spokes (11) and (12) deform as shown by the broken lines in Fig. 1. This, in turn, causes annular member (13) and magnets (24) to move relative to disc-shaped member (2) and magnets (23). Sensors mounted to the bicycle frame sense this relative motion to determine the force applied to crank (5). Constructing the Shikimori, et al device so that magnets (23) and (24) are fixed relative to each other during rotation would destroy the operation of the Shikimori, et al device. Thus, Shikimori, et al neither disclose nor suggest the subject matter recited in amended claim 1.

Accordingly, it is believed that the rejections under 35 U.S.C. §102 and §103 have been overcome by the foregoing amendment and remarks, and it is submitted that the claims are in condition for allowance. Reconsideration of this application as amended is respectfully requested. Allowance of all claims is earnestly solicited.

Respectfully submitted,



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Fig. 1